

This Page Is Inserted by IFW Operations
and is not a part of the Official Record

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

IMAGES ARE BEST AVAILABLE COPY.

**As rescanning documents *will not* correct images,
please do not report the images to the
Problem Image Mailbox.**



P.B.5818 - Patentlaan 2
2280 HV Rijswijk (ZH)
☎ +31 70 340 2040
TX 31651 epo nl
FAX +31 70 340 3016

Europäisches
Patentamt

Zweigstelle
in Den Haag
Recherchen-
abteilung

European
Patent Office

Branch at
The Hague
Search
division

Office européen
des brevets

Département a
La Haye
Division de la
recherche

Datum/Date

07.08.02

Zeichen/Ref./Réf.

EP 34173

Anmeldung Nr./Application No./Demande n°/Patent Nr./Patent No./Brevet n°.

02005739.4-2213-

Anmelder/Applicant/Demandeur/Patentinhaber/Proprietor/Titulaire

CANON KABUSHIKI KAISHA

COMMUNICATION

The European Patent Office herewith transmits as an enclosure the European search report for the above-mentioned European patent application.

If applicable, copies of the documents cited in the European search report are attached.

☒ Additional set(s) of copies of the documents cited in the European search report is (are) enclosed as well.

The following specifications given by the applicant have been approved by the Search Division:

☐ abstract

☒ title

☒ The abstract was modified by the Search Division and the definitive text is attached to this communication.

The following figure will be published together with the abstract: 2

REFUND OF THE SEARCH FEE

If applicable under Article 10 Rules relating to fees, a separate communication from the Receiving Section on the refund of the search fee will be sent later.





DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.CI.7)
D,X	PATENT ABSTRACTS OF JAPAN vol. 1997, no. 10, 31 October 1997 (1997-10-31) & JP 09 160455 A (RICOH CO LTD), 20 June 1997 (1997-06-20) * abstract; figures 2A,2B *	1,13	603G21/00
A	US 5 752 151 A (SAKEMI YUJI ET AL) 12 May 1998 (1998-05-12) * column 3, line 51-57; figure 7 * * column 6, line 58 - column 8, line 67 *	1-27	
A	US 4 984 019 A (FOLKINS JEFFREY J) 8 January 1991 (1991-01-08) * column 2, line 18-33; figure 2 * * column 4, line 51-55 *	1-27	
			TECHNICAL FIELDS SEARCHED (Int.CI.7)
			G03G
The present search report has been drawn up for all claims			
Place of search MUNICH		Date of completion of the search 23 July 2002	Examiner Kys, W
CATEGORY OF CITED DOCUMENTS			
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document	

**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 02 00 5739

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.
The members are as contained in the European Patent Office EDP file on
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

23-07-2002

Patent document cited in search report		Publication date	Patent family member(s)		Publication date
JP 09160455	A	20-06-1997	NONE		
US 5752151	A	12-05-1998	JP	8241021 A	17-09-1996
US 4984019	A	08-01-1991	JP	2974801 B2	10-11-1999
			JP	6258952 A	16-09-1994



ABSTRACT / ZUSAMMENFASSUNG / ABREGE

02005739.4

A cleaning device (17) comprising a cleaning member (43,43a) contactable to a moving image bearing member (11) to clean a surface of the image bearing member; holding means (47,41,41a) for holding the cleaning member; vibrating means (51) which is vibratable; wherein the holding means is movable toward and away from the image bearing member, and wherein the vibrating means (51) is supported on the holding means (41).